

## **POLYCARBONATE REINFORCED SHORT FIBERS COMPATIBILIZED WITH HIGHLY BRANCHED EPOXY SYSTEM**

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### **Abstract**

The PC reinforced with short glass(GF), Kevlar(KV) and carbon(CF) fiber at 15% by weight and compatibilized with highly branched epoxy/DDS system were prepared using the twin screw extruder. The HDT, impact, flexural and tensile properties were tested. The result revealed that PC/GF composite had superior properties than virgin PC and PC/epoxy blends. However, adding other fibers in the composites showed the inferior properties. The verdict of these results could be due to the volumetric overload of the polymer matrix.

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